



MARINE DIVISION

Certificate number: 05694/E0 BV

File number: AP1189

Product code: 4411H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Siemens AG - IC BT CPS
Rastatt - GERMANY

for the type of product

BURNING MANAGEMENT SYSTEMS

Burner control unit: LOK 16... and flame detector: RAR9

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 20 Jun 2018

For BUREAU VERITAS,

At BV HAMBURG, on 20 Jun 2013,

Dirk Hoepfner



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Burner control unit type **LOK16...** with flame detector type **RAR9** for yellow burning oil flames.

Main characteristics:

	LOK16.140..., LOK16.250..., LOK16.650...
Power supply:	230V, 50/60 Hz or 110V, 50/ 60 Hz
Degree of protection:	IP40

2. DOCUMENTS AND DRAWINGS :

- B4668 91250, 7785E dated: Apr. 1993, 7785 dated: 07/02/2002,
- CC1N7785 (LOK16..) dated: 18.08.2005, CC1N7713 (RAR...) dated: 20.02.2007,
- CC1N7785en (LOK 16...) dated 06.03.2012.
- CC1N7713en (RAR...) dated 30.08.2010.

3. TEST REPORTS :

- BA-SD dated: 23 December 1992 from LANDIS & GYR
- TÜV SÜD Industrie Service GmbH:**
- C-F 1120-02/12 dated: 2012-09-28.

4. APPLICATION / LIMITATION :

- 4.1 - Bureau Veritas Rules for the Classification of Steel Ships.
- 4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above mentioned components are to be supplied by **Siemens AG - IC BT CPS** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.

5.3 - **Siemens AG - IC BT CPS** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

Siemens AG - IC BT CPS
Berliner Ring 23
76437 Rastatt
Germany

5.4 - Each equipment is to be supplied with manual (s) for installation, use and maintenance.

6. MARKING OF PRODUCT :

- Maker's name or trademark.
- Equipment type or model identification.
- Date of manufacture and/or serial number.

7. OTHERS :

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the equipment at any time, and that **Siemens AG - IC BT CPS - GERMANY** will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 05694/D0 BV issued on 22 April 2008 by the Society.

*** END OF CERTIFICATE ***